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RAW SEQUENCE LISTING

DATE: 07/10/2002

PATENT APPLICATION: US/10/090,182A

TIME: 10:53:02

Input Set : A:\126181-1014 sequence listing.txt

Output Set: N:\CRF3\07102002\J090182A.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Abrams, Mark A.

7 Bauer, S. C.

8 Braford-Goldberg, Sarah R.

9 Caparon, Maire H.

10 Easton, Alan M.

11 Klein, Barbara K.

12 McKearn, John P.

13 Olins, Peter O.

14 Paik, Kumnan

15 Thomas, John W.

17 (ii) TITLE OF INVENTION: Methods of Ex-vivo Expansion of

18 Hematopoietic Cells Using Interleukin-3 (IL-3) Multiple

19 Mutation Polypeptides

21 (iii) NUMBER OF SEQUENCES: 415

23 (iv) CORRESPONDENCE ADDRESS:

24 (A) ADDRESSEE: S. Christopher Bauer, Pharmacia Corp

25 Corporate Patent Dept. Mail Zone 04E

26 (B) STREET: 800 N. Lindbergh Blvd.

27 (C) CITY: St. Louis

28 (D) STATE: Missouri

29 (E) COUNTRY: USA

30 (F) ZIP: 63167

32 (v) COMPUTER READABLE FORM:

33 (A) MEDIUM TYPE: Floppy disk

34 (B) COMPUTER: IBM PC compatible

35 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

36 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

38 (vi) CURRENT APPLICATION DATA:

C--> 39 (A) APPLICATION NUMBER: US/10/090,182A

C--> 40 (B) FILING DATE: 03-Apr-2002

41 (C) CLASSIFICATION:

42

43 (vii) PRIOR APPLICATION DATA:

44 (A) APPLICATION NUMBER: 08/764,114

45 (B) FILING DATE: 09-DEC-1996

46

47 (A) APPLICATION NUMBER: US 07/981,044

48 (B) FILING DATE: 24-NOV-1992

49

50 (A) APPLICATION NUMBER: PCT/US93/11197

51 (B) FILING DATE: 22-NOV-1993

52

53 (A) APPLICATION NUMBER: 08/411,795

54 (B) FILING DATE: 04-JUN-1995

55

56 (viii) ATTORNEY/AGENT INFORMATION:

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```

60      (A) NAME: S. Christopher Bauer
61      (B) REGISTRATION NUMBER: 42,305
62      (C) REFERENCE/DOCKET NUMBER: C2713/12
64      (ix) TELECOMMUNICATION INFORMATION:
65          (A) TELEPHONE: (636)737-6257
66          (B) TELEFAX: (736)737-6257
68 (2) INFORMATION FOR SEQ ID NO: 1:
70      (i) SEQUENCE CHARACTERISTICS:
71          (A) LENGTH: 23 base pairs
72          (B) TYPE: nucleic acid
73          (C) STRANDEDNESS: single
74          (D) TOPOLOGY: linear
W--> 76      (ii) MOLECULE TYPE: DNA (synthetic)
80      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
82 CTAGCGATCT TTATAAAGC TTG                                     23
84 (2) INFORMATION FOR SEQ ID NO: 2:
86      (i) SEQUENCE CHARACTERISTICS:
87          (A) LENGTH: 23 base pairs
88          (B) TYPE: nucleic acid
89          (C) STRANDEDNESS: single
90          (D) TOPOLOGY: linear
W--> 92      (ii) MOLECULE TYPE: DNA (synthetic)
96      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
98 GATCCAAGCT TATTAAAAGA TCG                                     23
100 (2) INFORMATION FOR SEQ ID NO: 3:
102      (i) SEQUENCE CHARACTERISTICS:
103          (A) LENGTH: 69 base pairs
104          (B) TYPE: nucleic acid
105          (C) STRANDEDNESS: single
106          (D) TOPOLOGY: linear
W--> 108      (ii) MOLECULE TYPE: DNA (synthetic)
112      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
114 GGCAACAATT TCTACAAAAC ACTTGATACT GTATGAGCAT ACAGTATAAT TGCTTCAACA   60
116 GAACAGATC                                                         69
118 (2) INFORMATION FOR SEQ ID NO: 4:
120      (i) SEQUENCE CHARACTERISTICS:
121          (A) LENGTH: 67 base pairs
122          (B) TYPE: nucleic acid
123          (C) STRANDEDNESS: single
124          (D) TOPOLOGY: linear
W--> 126      (ii) MOLECULE TYPE: DNA (synthetic)
130      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
132 TGTTCGTGTG AAGCAATTAT ACTGTATGCT CATACAGTAT CAAGTGTTTT GTAGAAATTG   60
134 TTGCCGC                                                         67
136 (2) INFORMATION FOR SEQ ID NO: 5:
138      (i) SEQUENCE CHARACTERISTICS:
139          (A) LENGTH: 23 base pairs
140          (B) TYPE: nucleic acid
141          (C) STRANDEDNESS: single

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142          (D) TOPOLOGY: linear
W--> 144      (ii) MOLECULE TYPE: DNA (synthetic)
148          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
150 CCATTGCTGC CGGCATCGTG GTC                                     23
152 (2) INFORMATION FOR SEQ ID NO: 6:
154      (i) SEQUENCE CHARACTERISTICS:
155          (A) LENGTH: 46 base pairs
156          (B) TYPE: nucleic acid
157          (C) STRANDEDNESS: single
158          (D) TOPOLOGY: linear
W--> 160      (ii) MOLECULE TYPE: DNA (synthetic)
164          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
166 CATGGCTCCA ATGACTCAGA CTACTTCTCT TAAGACTTCT TGGGTT          46
168 (2) INFORMATION FOR SEQ ID NO: 7:
170      (i) SEQUENCE CHARACTERISTICS:
171          (A) LENGTH: 42 base pairs
172          (B) TYPE: nucleic acid
173          (C) STRANDEDNESS: single
174          (D) TOPOLOGY: linear
W--> 176      (ii) MOLECULE TYPE: DNA (synthetic)
180          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
182 AACCCAAGAA GTCTTAAGAG AAGTAGTCTG AGTCATTGGA GC              42
184 (2) INFORMATION FOR SEQ ID NO: 8:
186      (i) SEQUENCE CHARACTERISTICS:
187          (A) LENGTH: 64 base pairs
188          (B) TYPE: nucleic acid
189          (C) STRANDEDNESS: single
190          (D) TOPOLOGY: linear
W--> 192      (ii) MOLECULE TYPE: DNA (synthetic)
196          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
198 AATTCCGTCG TAACTGACC TTCTATCTGA AAACCTTGGA GAACGCGCAG GCTCAACAGT 60
200 AATA                                                         64
202 (2) INFORMATION FOR SEQ ID NO: 9:
204      (i) SEQUENCE CHARACTERISTICS:
205          (A) LENGTH: 64 base pairs
206          (B) TYPE: nucleic acid
207          (C) STRANDEDNESS: single
208          (D) TOPOLOGY: linear
W--> 210      (ii) MOLECULE TYPE: DNA (synthetic)
214          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
216 AGCCTATTAC TGTGAGCCT GCGCGTTCTC CAAGGTTTTC AGATAGAAGG TCAGTTTACG 60
218 ACGG                                                         64
220 (2) INFORMATION FOR SEQ ID NO: 10:
222      (i) SEQUENCE CHARACTERISTICS:
223          (A) LENGTH: 126 amino acids
224          (B) TYPE: amino acid
225          (D) TOPOLOGY: linear
227      (ii) MOLECULE TYPE: peptide
231      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

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```

233 Met Ala Pro Met Thr Gln Thr Thr Ser Leu Lys Thr Ser Trp Val Asn
234 1 5 10 15
236 Cys Ser Asn Met Ile Asp Glu Ile Ile Thr His Leu Lys Gln Pro Pro
237 20 25 30
239 Leu Pro Leu Leu Asp Phe Asn Asn Leu Asn Gly Glu Asp Gln Asp Ile
240 35 40 45
242 Leu Met Glu Asn Asn Leu Arg Arg Pro Asn Leu Glu Ala Phe Asn Arg
243 50 55 60
245 Ala Val Lys Ser Leu Gln Asn Ala Ser Ala Ile Glu Ser Ile Leu Lys
246 65 70 75 80
248 Asn Leu Leu Pro Cys Leu Pro Leu Ala Thr Ala Ala Pro Thr Arg His
249 85 90 95
251 Pro Ile His Ile Lys Asp Gly Asp Trp Asn Glu Phe Arg Arg Lys Leu
252 100 105 110
254 Thr Phe Tyr Leu Lys Thr Leu Glu Asn Ala Gln Ala Gln Gln
255 115 120 125

```

257 (2) INFORMATION FOR SEQ ID NO: 11:

259 (i) SEQUENCE CHARACTERISTICS:

260 (A) LENGTH: 24 base pairs

261 (B) TYPE: nucleic acid

262 (C) STRANDEDNESS: single

263 (D) TOPOLOGY: linear

W--> 265 (ii) MOLECULE TYPE: DNA (synthetic)

269 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

271 CATGGCTAAC TGCTCTAACA TGAT

24

273 (2) INFORMATION FOR SEQ ID NO: 12:

275 (i) SEQUENCE CHARACTERISTICS:

276 (A) LENGTH: 22 base pairs

277 (B) TYPE: nucleic acid

278 (C) STRANDEDNESS: single

279 (D) TOPOLOGY: linear

W--> 281 (ii) MOLECULE TYPE: DNA (synthetic)

285 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

287 CGATCATGTT AGAGCAGTTA GC

22

289 (2) INFORMATION FOR SEQ ID NO: 13:

291 (i) SEQUENCE CHARACTERISTICS:

292 (A) LENGTH: 113 amino acids

293 (B) TYPE: amino acid

294 (D) TOPOLOGY: linear

296 (ii) MOLECULE TYPE: peptide

300 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

```

302 Met Ala Asn Cys Ser Asn Met Ile Asp Glu Ile Ile Thr His Leu Lys
303 1 5 10 15

```

```

305 Gln Pro Pro Leu Pro Leu Leu Asp Phe Asn Asn Leu Asn Gly Glu Asp
306 20 25 30

```

```

308 Gln Asp Ile Leu Met Glu Asn Asn Leu Arg Arg Pro Asn Leu Glu Ala
309 35 40 45

```

```

311 Phe Asn Arg Ala Val Lys Ser Leu Gln Asn Ala Ser Ala Ile Glu Ser
312 50 55 60

```

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```

314   Ile Leu Lys Asn Leu Leu Pro Cys Leu Pro Leu Ala Thr Ala Ala Pro
315   65                               70                               75                               80
317   Thr Arg His Pro Ile His Ile Lys Asp Gly Asp Trp Asn Glu Phe Arg
318                               85                               90                               95
320   Arg Lys Leu Thr Phe Tyr Leu Lys Thr Leu Glu Asn Ala Gln Ala Gln
321                               100                              105                              110
323   Gln

```

326 (2) INFORMATION FOR SEQ ID NO: 14:

328 (i) SEQUENCE CHARACTERISTICS:

329 (A) LENGTH: 27 amino acids

330 (B) TYPE: amino acid

331 (D) TOPOLOGY: linear

333 (ii) MOLECULE TYPE: peptide

337 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

```

339   Met Met Ile Thr Leu Arg Lys Leu Pro Leu Ala Val Ala Val Ala Ala
340   1           5           10           15

```

342 Gly Val Met Ser Ala Gln Ala Met Ala Asn Cys

343 20 25

345 (2) INFORMATION FOR SEQ ID NO: 15:

347 (i) SEQUENCE CHARACTERISTICS:

348 (A) LENGTH: 133 amino acids

349 (B) TYPE: amino acid

350 (D) TOPOLOGY: linear

352 (ii) MOLECULE TYPE: peptide

355 (ix) FEATURE:

356 (A) NAME/KEY: Modified-site

357 (B) LOCATION: 1

358 (D) OTHER INFORMATION: /note= "Met- may or may not precede the
359 amino acid in position 1"

361 (ix) FEATURE:

362 (A) NAME/KEY: Modified-site

363 (B) LOCATION: 17

364 (D) OTHER INFORMATION: /note= "Xaa at position 17 is Ser,
365 Lys, Gly, Asp, Met, Gln, or Arg"

367 (ix) FEATURE:

368 (A) NAME/KEY: Modified-site

369 (B) LOCATION: 18

370 (D) OTHER INFORMATION: /note= "Xaa at position 18 is Asn,
371 His, Leu, Ile, Phe, Arg, or Gln"

373 (ix) FEATURE:

374 (A) NAME/KEY: Modified-site

375 (B) LOCATION: 19

376 (D) OTHER INFORMATION: /note= "Xaa at position 19 is Met,
377 Phe, Ile, Arg, Gly, Ala, or Cys"

379 (ix) FEATURE:

380 (A) NAME/KEY: Modified-site

381 (B) LOCATION: 20

382 (D) OTHER INFORMATION: /note= "Xaa at position 20 is Ile,
383 Cys, Gln, Glu, Arg, Pro, or Ala"

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Input Set : A:\126181-1014 sequence listing.txt

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L:39 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:40 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:76 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=1
L:92 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=2
L:108 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=3
L:126 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=4
L:144 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=5
L:160 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=6
L:176 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=7
L:192 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8
L:210 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9
L:265 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=11
L:281 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=12
L:1023 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:16
L:1026 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:32
L:1029 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:48
L:1032 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:64
L:1035 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:80
L:1038 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:96
L:1041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:112
L:1044 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:128
L:1611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:16
L:1614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:32
L:1617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:48
L:1620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:64
L:1623 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:80
L:1626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:96
L:1629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:112
L:2078 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:16
L:2081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:32
L:2084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:48
L:2087 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:64
L:2090 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:80
L:2093 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:96
L:2096 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:112
L:2413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:16
L:2416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:32
L:2419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:48
L:2422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:64
L:2425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:80
L:2428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:96
L:2431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:112
L:3111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:16
L:3114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:32
L:3117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:48
L:3120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:64
L:3123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:80
L:3126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:96
L:3129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:112

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L:3283 M:220 C: Keyword misspelled or invalid format, [(D) OTHER INFORMATION:]
L:3692 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:3695 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:16
L:3698 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:32
L:3701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:48
L:3704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:64
L:3707 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:80
L:3710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:96
L:3750 M:220 C: Keyword misspelled or invalid format, [(D) OTHER INFORMATION:]
L:4090 M:220 C: Keyword misspelled or invalid format, [(D) OTHER INFORMATION:]
L:4155 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:4158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:16
L:4161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:32
L:4164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:48
L:4167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:64
L:4170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:80
L:4173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:96
L:4485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:4514 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=23
L:4530 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=24
L:4546 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=25
L:4562 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=26
L:4578 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=27
L:4594 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=28
L:4610 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=29
L:4626 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=30
L:4642 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=31
L:4658 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=32
L:4674 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=33
L:4690 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=34
L:4706 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=35
L:4722 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=36
L:4738 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=37
L:4754 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=38
L:4770 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=39
L:4786 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=40
L:4802 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=41
L:4818 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=42
L:4834 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=43
L:4850 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=44
L:4866 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=45
L:4882 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=46
L:4898 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=47
L:4914 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=48
L:4930 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=49
L:4946 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=50
L:4962 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=51
L:4978 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=52
L:4994 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=53

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L:5010 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=54
L:5026 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=55
L:5042 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=56
L:5058 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=57
L:5074 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=58
L:5090 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=59
L:5106 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=60
L:5122 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=61
L:7182 M:220 C: Keyword misspelled or invalid format, [(D) OTHER INFORMATION:]
L:7228 M:220 C: Keyword misspelled or invalid format, [(B) LOCATION:]
L:7509 M:220 C: Keyword misspelled or invalid format, [(A) NAME/KEY:]
L:7569 M:220 C: Keyword misspelled or invalid format, [(B) LOCATION:]
L:7587 M:220 C: Keyword misspelled or invalid format, [(B) LOCATION:]